## INTERVAL SHEET

Page 1 of VDMR Well No: Well No. 1476

Date rec'd: 2/4/66 Sample Interval: from 0 to 415

PROP: Town of Timberville #3 Number of samples: 53 (Cuttings)

COMP: Sydnor Pump & Well Co. Total Depth: 418

COUNTY: Rockingham (Timberville) Oil or Gas: Water: X Exploratory:

From	m-To	Fro	om-	To Fro	om-To	From-To
	- 4	249			-	-
_	10	255			-	-
10	- 20	265			-	_
20	33	272			-	-
33	43	281		291	_	-
43 -	- 53	291	_	300	_	_
53	- 63	300	_	306	-	-
63	73	306	-	314	_	_
73	83			320	_	
83	92	320		323	-	-
~~	<i>,</i> –					
92 .	- 103	323		337 *		
	- 115			346	-	_
					_	_
missing 115	142-1/2	346	-	351.7 * m/55/ng	_	_
142-1/2		303		510.	_	_
142-1/2	149	370		375		
1.40						
	- 161	375	-	380		-
	- 165	380	-	385 *	_	_
	- 177	385		390 *	***	
	189	390	_	395	ina.	-
189	194	395	_	400 *	-	_
194 -	- 197	400		405		_
197 -	- 201	405	-	410 *	con .	_
201 -	- 206	410	-	415 *		-
206	211		-		-	-
	214		-		-	-
214	217					
	-223-1/2				<del></del>	_
223-1/2 -					_	
and the first of the second se	242-1/2		_		_	_
242-1/2					****	_
		1				
∇ Unwas	shed samples	only				

OWNER: Town of Timberville, Well #3
DRILLER: Sydnor Pump and Well Co., Inc.

COUNTY: Rockingham (Timberville)

VDMR #1476 WWCR #543 TOTAL DEPTH: 418<sup>t</sup>

## GEOLOGIC LOG

## Overburden (0-142-1/21)

0-4 Clay — light-gray brown with fine, angular, quartz sand and minor well rounded granules of sandstone.

4-10 Sand, Gravel and Clay — medium-brown, slightly reddish; fine- to coarse-grained-angular sand; medium pebbles of dark-gray and tan sandstone; minor friable cream colored sandstone, trace chert.

10-20

Sand and Gravel — yellow-brown, fine- to coarse, angular to rounded sand; rounded granules and pebbles of cream colored to dark-reddish-gray sandstone and conglomeratic sandstone; orange-brown and light-gray to dark-gray chert; the pebbles have been broken by the drill and the largest fragment is 15 mm. long; minor clay.

33-43 largest fragment 30 mm. long.

43-53

53-63 largest fragment 12 mm.

Gravel — greenish-gray, orange-brown, salmon-brown and dark-reddish-gray, fine- to coarse; rounded pebbles of fine-to very-coarse-grained sandstone and conglomeratic sandstone; one pebble fragment shows bedding and grain size variation from very-fine sand to granules; the largest fragment if completely angular, 42 mm. long and probably was part of a boulder; angular small pebble size fragments of chert; minor clay.

73-83 with one piece of a flat water-worn boulder of fine grained sandstone (73 x 15 mm.).

83-92 more finely crushed by drill; largest fragment 13 mm. long.

92-103 Gravel — light-brown, rounded pebbles to 48 mm. long, angular fragments of larger pebbles and boulders; fine- to medium-grained sandstone; small angular fragments of gray chert.

OWNER: Town of Timberville, Well #3 #1476				
103-115	Gravel — cream-colored, light-brown to dark-reddish-gray, rounded, fine- to coarse-pebbles of fine-grained sandstones and conglomeratic sandstone and chert.			
115-125	Clay — light-brown with fine- to medium-sand; granules to small pebbles of light- to dark-gray sandstone and chert; one large angular fragment of medium-gray, coarse-grained, quartzitic sandstone (34 mm. long).			
125-135	No sample.			
135-142-1/2	Clay — pale-orange-brown, with sand, granules and fine pebble size fragments of chert and rounded sandstone; clay slightly indurated.			
Zone of Caves and Collapse in Beekmantown Formation (142-1/2-415)				
142-1/2-149	Chert, Dolomite and Gravel — dark-blue-gray che porous and oolitic; brown-gray, medium-crystallin argillaceous dolomite; small pebbles of light-brow gray, medium- to fine-grained sandstone; minor control of the contr	ne, n to dark-		
149-161	dolomite more abundant, bluish and more of crystalline; minor vein quartz.	coarsely		
161-165	Argillaceous Dolomite — pale-orange-brown, tan a fine-grained, bedded, argillaceous dolomite; dark-minor vein quartz and clay.	Company Comments		
165-177	Clay and Argillaceous Dolomite — tan clay; light-hemedium-gray, fine-grained argillaceous dolomite; sandstone, chert, vein quartz and coarsely-crystagray dolomite.	minor		
177-189	Dolomite - medium-gray, medium-crystalline; cr vein dolomite; minor chert, clay and trace of vein			
189-194	TI .			
194-197	less clay.			
197-201	Dolomite and Clay — medium-gray, fine- to coars dolomite; minor cream-colored vein dolomite and blue-gray chert; light-brown clay.			
201-206	Dolomite — light- to dark-blue-gray, medium-cry dark-blue chert, white vein quartz, light-gray vein			

orange-brown clay.

OWNER: To	wn of Timberville, Well #3	#1476
206-211	Dolomite — medium-gray, medium-crystal colored vein dolomite, minor vein quartz, and light-brown clay.	
211-214	Dolomite — medium-gray, medium-crystal friable; cream to gray coarsely crystalline brown and gray, bedded, argillaceous dolor blue-gray often porous chert; minor clay a minor thin laminae mudstone, vein quartz a	vein dolomite; mite; minor dark- nd vein quartz;
214-217	ii ,	
217-223-1/2	Dolomite — dark-blue-gray, fine- to coars to cream very-coarsely-crystalline vein do to dark-blue-gray chert, trace clay and vein	lomite; minor light-
223-1/2-241	Solution Zone — dolomite as described above with iron oxide, often porous and friable; v box works where dolomite crystals were; la mudstone.	ein quartz showing
241-242-1/2	Basalt, Dolomite and Chert — dark-blue-grained basalt: relict micro-subophitic text (albite), epidote, amphibole, chlorite, mag quartz; dark-gray, fine- to coarse- crystal cream colored vein dolomite; light- to dark vein quartz; the sample was finely crushed structural relationships were obscured.	ture, plagioclase gnetite and minor line dolomite; x-gray chert; minor
242-1/2-249	Limestone — medium-dark-gray, aphanocalight- to dark-gray chert; trace of basalt as minor tan clay.	
249-255	minor vein calcite.	
255-265	11	
265-272	Limestone — medium-gray, aphanocrystal siltstone, boxworks of blue-gray chert with cavities, massive chert, vein quartz.	
272-281	Clay, Limestone and Sandstone Pebbles — medium-dark-blue-gray, fine-grained lime cream to red-brown sand, granules and pesandstone; trace basalt from above.	estone; minor chert;
281-291	н	

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291-300

OWNER: Tow	on of Timberville, Well #3	#1476
300-306	Clay, Limestone and Sandstone Pebbles — light-br medium-dark-blue-gray, fine-grained limestone; a cream to red-brown sand, granules and pebbles of sandstone; trace basalt from above.	minor chert;
306-314	Limestone — medium-blue-gray to tan, fine-grain argillaceous; minor clay; trace vein quartz.	ed,
314-320	II .	
320-323	II .	
323-337	Clay and Limestone — light-brown clay; medium-g grained limestone; minor quartz sand.	gray, fine-
337-346	TI .	
346-3517	ń.	
351.7-365	No sample.	
365-370	Limestone - medium-gray, fine-grained, minor of	clay.
370-375	Solution Zone — medium-dark-blue-gray, fine-gray limestone; siliceous claystone and siltstone; porosiliceous material from which carbonates have been thin plates of vein quartz some with euhedral cryst clay; two small sandstone pebbles.	us residual en leached;
375-380	some of the limestone fragments are water sandstone pebbles.	worn, no
380-385	11	
385-390	Dolomite — light-gray, medium-crystalline, mind veinlets; trace chert.	or siliceous
390-395	Clay and Limestone — white to light-brown clay; rgray, fine-grained limestone; minor vein quartz.	nedium-dark-
395-400	TI .	
400-405	Limestone — medium-gray, fine-grained, argillad brown, argillaceous, silica laminae.	ceous; orange-
405-410	more clay.	
410-415	п	

415-418

No sample.

OWNER: Town of Timberville, Well #3

#1476

## GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-142-1/2	Overburden	Recent
142-1/2-415	Solution and Collapse Zone in Beekmantown Formation	Ordovician
415-418	Basalt dike or sill at 241-242-1/2 <sup>1</sup> No sample	

Virginia Division of Mineral Resources Hollis N. Walker, Geologist February 9, 1966